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### **Group homomorphism** - Wikipedia, the free encyclopedia

If  $G$  and  $H$  are **abelian** (i.e. commutative) groups, then the set  $\text{Hom}(G, H)$  of all **group homomorphisms** from  $G$  to  $H$  is itself an **abelian group**: the sum  $h + k$  of ...  
en.wikipedia.org/wiki/Group\_homomorphism - 28k - Cached - Similar pages

### **Category of abelian groups** - Wikipedia, the free encyclopedia

In mathematics, the category  $\text{Ab}$  has the **abelian** groups as objects and **group homomorphisms** as morphisms. This is the prototype of an **abelian category**: ...  
en.wikipedia.org/wiki/Category\_of\_abelian\_groups - 20k - Cached - Similar pages  
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### **Re: Abelian group homomorphism**

In reply to "**Abelian group homomorphism**", posted by Jean on Oct 8, 2003: >Please help!! >1) Suppose  $G = \{ \text{all functions } f: [0, 1] \rightarrow \mathbb{R} \}$ . Define an addition on  $G$  ...  
at.yorku.ca/cgi-bin/bbqa?forum=ask\_an\_algebraist\_2003;task=show\_msg;msg=0207.0001 - 5k - Cached - Similar pages

### **JSTOR: The First Derived Equaliser of a Pair of Abelian Group ...**

In this note We attack the problem of classifying a pair of **abelian group homomorphisms** by introducing a construction which we call "the derived ..."  
links.jstor.org/sici?sici=0002-9939(197401)42%3A1%3C77%3ATFDEOA%3E2.0.CO%3B2-U - Similar pages

### **JSTOR: The Study of Commutative Semigroups with Greatest Group ...**

We define a **gr-homomorphism** to be a **homomorphism**  $g$  of  $S$  into an **abelian group**  $Gr$  having the universal repelling property with respect to **homomorphisms** of ...  
links.jstor.org/sici?sici=0002-9947(197211)173%3C401%3ATSOCSW%3E2.0.CO%3B2-6 - Similar pages  
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### **21.4 Homomorphisms of abelian groups**

**Homomorphisms of abelian groups.** TODO: \* there must be a homspace first \* there should be hom and Hom methods in **abelian group** ...  
sage.scipy.org/sage/doc/html/ref/module-sage.groups.abelian-gps.abelian-group-homorphism.html - 13k - Cached - Similar pages

### **[PDF] Homework 1 Due September 17th 1. Let $A$ be an abelian group. Show ...**

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Let  $A$  be an **abelian group**. Show that there is an isomorphism of groups.  $\alpha: \mathbb{Z} \times n \times A \rightarrow A \times n$ . with the property that for any **group homomorphism**  $f: A \rightarrow A \times n$ .  
gauss.math.yale.edu/~mg622/prob1.pdf - Similar pages

### **ABSTRACT ALGEBRA: OnLine Study Guide, Section 3.7**

Since any vector space is an **abelian group** under vector addition, any linear transformation between vector spaces is a **group homomorphism**. ...  
www.math.niu.edu/~beachy/abstract\_algebra/study\_guide/37.html - 12k - Cached - Similar pages

### **[PDF] Twisted Alexander polynomials and surjectivity of a group ...**

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Suppose that  $G$  is a finitely presentable **group** with a surjective **homomorphism** to the free **abelian group** of rank  $l$ , eg, abelianization. Let  $\rho: G \rightarrow GL(n;R) \dots$

[arxiv.org/pdf/math/0510224](http://arxiv.org/pdf/math/0510224) - [Similar pages](#)

[Transwiki:Glossary of group theory](#) - Wiktionary

Kernel of a **group homomorphism**. It is the preimage of the identity in the codomain of a ...

The structure of any finite **abelian group** is relatively simple; ...

[en.wiktionary.org/wiki/Transwiki:Glossary\\_of\\_group\\_theory](http://en.wiktionary.org/wiki/Transwiki:Glossary_of_group_theory) - 24k - [Cached](#) - [Similar pages](#)

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## LASEC

On the other hand, by selecting **group homomorphisms** with a small **group** range ...

Based on these protocols, we devise our new undeniable **signature** scheme and ...

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### [PDF] How to Sign with One Bit

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1-bit **signature**. We introduce a new computational problem related to the interpolation of.

**group homomorphisms**. Many famous cryptographic problems including ...

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## (WO/2005/081451) METHOD TO GENERATE, VERIFY AND DENY AN UNDENIABLE ...

The method according to claim 2, wherein the **group homomorphism** (f) computation is ...

A Method of confirming by a Verifier an undeniable **signature** (y1, ...

[www.wipo.int/pctdb/en/wo.jsp?IA=EP2005001335&DISPLAY=CLAIMS](http://www.wipo.int/pctdb/en/wo.jsp?IA=EP2005001335&DISPLAY=CLAIMS) - 28k -

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### [PDF] Generic Homomorphic Undeniable Signatures

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Interpolation of **Group Homomorphisms**. Our **Signature** Scheme. Conclusion. Generic

Homomorphic Undeniable Signatures. J. Monnerat. S. Vaudenay ...

[www.iris.re.kr/ac04/data/Asiacrypt2004/09%20Digital%20Signatures/01\\_Jean%](http://www.iris.re.kr/ac04/data/Asiacrypt2004/09%20Digital%20Signatures/01_Jean%20Monnerat.pdf)

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### [PDF] Short undeniable SignatureS: deSign, analySiS, and applicationS

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**group homomorphism** which he keeps secret. Based on these protocols, we devise. our new undeniable **signature** scheme and prove its security in a formal way. ...

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## LNCS 3329 - Generic Homomorphic Undeniable Signatures

the sense that we transform a private **group homomorphism** from public. groups G to H

(the order of H being public) into an undeniable **signature**. scheme. ...

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### Homomorphic Signature Schemes

In a series of talks, Rivest suggested the investigation of homomorphic signature schemes. For instance, the RSA **signature** scheme is a **group homomorphism** ...

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## Method to generate, verify and deny an undeniable signature ...

[0214] The above described **group homomorphism** of the undeniable **signature** scheme is in the context of characters to hard characters, which means a ...

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## CAT.INIST

Optimization of the MOVA undeniable **signature** scheme ... well as its generalization

proposed at Asiacrypt '04 which is based on a secret **group homomorphism**. ...  
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**[PDF] Verifiable Encryption and Applications to Group Signatures and ...**

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that you know a **signature** on given message reduces to demonstrating that you. know a pre-image under a **group homomorphism**. This is true for any of the stan- ...  
[www.brics.dk/RS/98/32/BRICS-RS-98-32.pdf](http://www.brics.dk/RS/98/32/BRICS-RS-98-32.pdf) - Similar pages

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